

VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

SCANNED
6/17/09
Shelley, Bob

☐ Conceptual Proposal ☒ Final Proposal

Date June 17, 2009

Contract ID 080919-401

Job No. J4I1650

County Jackson Rt. I-470

Original Bid Cost 14,338,653.90

Contractor Emery Sapp and Sons Inc.

By Jason Robertson

Designed By Tim Paulson

Phone (816) 221-3500

VECP# 10-35 (to be completed by C.O.)

VECP ☐ or PDVECP ☒

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

In phase 2D of said Job, from station 553+00 to 556+33.76 I-470 NBL right, the construction of the new right lane and 4 foot wide A2 shoulder is specified as asphalt only. We propose using non-reinforced Portland Cement Concrete Pavement as a substitute. This will provide a more durable driving surface at the expense of roadway sequencing.

2. Estimate of reduction in construction costs. \$6,821.85

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

Section K of the Job Special Provisions outlines the difference between the two pavement type life cycles. Utilizing Portland Cement Concrete Pavement will provide a more durable roadway with a substantially longer life cycle.

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

6/17/2009 (the alternate pavement
section on sheet # 2 will be used)
(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

7/1/2009
(date)

none

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

N/A
(date and/or dates)

**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments:

I recommend approval of the VE Proposal. By using P.C.C.P. in place of asphalt, will provide a longer life cycle for the pavement. All though the savings are not proportional to the bid items for this work, the contractor is incurring more cost due to the fact that they will be using ready mix concrete instead of using their on site batch plant. I recommend this only as Practical Design Value Engineering with a 75% MoDOT/ 25% Contractor savings split.

Joshua D. Walker - Acting R.E.
Submitted By Resident Engineer

8/6/09
Date

Comments:

I CONCUR WITH THE PROJECT OFFICE
RECOMMENDATION.

Elizabeth A. Nyst (PUN)

☒ Approval
Recommended

☐ Rejection
Recommended

District Engineer

8/20/09
Date

Comments:

SEE ATTACHED NOTE FROM KENN IRVING
AT FHWA

☒ Approval
Recommended

☐ Rejection
Recommended

Federal Highway Administration
Required for FHWA Full Oversight Projects

Date

Comments:

APPROVED PER DISTRICT RECOMMENDATION

☒ Approval

☐ Rejection

David D. O'Connor (HYPG)

State Construction and Materials Engineer

4-13-10
Date

Distribution: Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA Value Engineering Administrator - MoDOT, P. O. Box 270, Jefferson City, MO 65102



<Kevin.Irving@dot.gov>
04/13/2010 11:33 AM

To <Dennis.Bryant@modot.mo.gov>
cc
bcc
Subject RE: More catching up on VE's

Dennis,
I remember this one and I had given conceptual approval sometime ago. I thought there was going to be some additional analysis of the proposed cost savings by Shelie's group but it looks like it was satisfactory. I don't have any objections to this one on my end.

Thanks,
Kevin

-----Original Message-----

From: Dennis.Bryant@modot.mo.gov [mailto:Dennis.Bryant@modot.mo.gov]
Sent: Tuesday, April 13, 2010 11:01 AM
To: Irving, Kevin (FHWA)
Subject: More catching up on VE's

My recollection was that this one was withdrawn by the contractor, but evidently I was mistaken. Have you seen it?

Looks pretty straightforward.

----- Forwarded by Dennis G Bryant/SC/MODOT on 04/13/2010 10:58 AM -----

Perry J

Allen/D4/MODOT

To

04/12/2010 04:40

Dennis G Bryant/SC/MODOT@MODOT,

PM

Shelie A Daniel/D4/MODOT@MODOT

cc

Subject

Fw: VE Proposal #1, Job No.

J411650, 470, Jackson

Is this the one we are missing?

Perry J. Allen Jr. P.E.
District Construction / Materials Engineer District 4 MoDOT 600 NE
Colbern Road Lee's Summit, MO 64086 816.622.6340
----- Forwarded by Perry J Allen/D4/MODOT on 04/12/2010 04:41 PM -----

Perry J
Allen/D4/MODOT@MO
DOT
To Dennis G Bryant/SC/MODOT@MODOT
08/20/2009 04:26
cc PM
Subject VE Proposal #1, Job No. J4I1650,
470, Jackson

Dennis

Please process accordingly.

Thanks

(See attached file: Sapp VE 2009-1.pdf)
Perry J. Allen Jr. P.E.
District Construction / Materials Engineer District 4 MoDOT 600 NE
Colbern Road Lee's Summit, MO 64086 816.622.6340



Tim Paulson
<tpaulson@emerysapp.com>

07/17/2009 02:58 PM

To "Robert.Ruffini@modot.mo.gov"
<Robert.Ruffini@modot.mo.gov>
cc Carl Morgan <carlmorgan@emerysapp.com>, Manny Bailon
<mbailon@emerysapp.com>, Jason Robertson
<jrobertson@emerysapp.com>

bcc

Subject RE: VE #5

History: This message has been forwarded.

Bob,

Line number 160 511.5 SY of 13" super-pave asphalt was the only line to change. We propose a 9" PCCP as an alternate at the unit price of \$80.27 per SY. This produces the savings referenced. The A2 Shoulder would pay under the same line and price. The reason the 9" pavement is higher than the unit price in Line 1380 is due to utilizing Ready Mix at night with plant overtime charges and the additional costs of hand-pouring this section versus the machine paving on the balance of the project.

Tim Paulson
General Manager
Emery Sapp & Sons, Inc.

From: Robert.Ruffini@modot.mo.gov [mailto:Robert.Ruffini@modot.mo.gov]
Sent: Thursday, July 16, 2009 1:38 PM
To: Tim Paulson
Subject: VE #5

Tim,
I need E.S.S. to quantify the savings of \$6,821.85 shown on Line No. 2.
Thanks

Bob Ruffini
Riverside Project Office - 4CN
Senior Construction Inspector
Office: (816) 741-7030
Fax: (816) 741-0200
Cell: (816) 365-8085
E-mail: robert.ruffini@modot.mo.gov

DEVICE NAME: Riverside Construction Office
DEVICE MODEL: SHARP AR-M237
LOCATION: Riverside Construction Office

FILE FORMAT: PDF G4
RESOLUTION: 200dpi

Attached file is scanned image in PDF format.
This file can be read by Adobe Acrobat Reader.
The reader can be downloaded from the following URL:

<http://www.adobe.com/>



J411650.pdf

816.622.0464

Allan.Ludiker@modot.mo.gov

----- Forwarded by Allan J Ludiker/D4/MODOT on 06/18/2009 07:11 AM -----



Shelie A

Daniel/D4/MODOT

06/18/2009 06:58 AM

To kevin.irving@fhwa.dot.gov, Perry J
Allen/D4/MODOT@MODOT, Dennis G
Bryant/SC/MODOT@MODOT, Allan J
Ludiker/D4/MODOT@MODOT

cc Robert W Ruffini/D4/MODOT@MODOT,
michael.anderson@lees-summit.mo.us

Subject Fw. VECF, Strother Road Interchange, I-470, Jackson
County

Please review the attached VE Proposal from ESS for the Strother Road interchange project. The contractor's proposal is to change the A2 shoulder from asphalt to concrete. Let me know your thoughts on this proposal and I will prepare a response and forward it appropriately for processing.

Bob and I do not see any immediate reasons not to approve this proposal. ESS is asking for a 75/25 split. Let me know your comments on this too.

Kevin Irving is out of the office until June 24th, but I believe we can wait until he returns for his response.

Shelie Daniel, P.E.
Resident Engineer
5101 NW Gateway
Riverside, MO 64150
(816) 741-7030
(816) 215-7275 (cell)
(816) 741-0200 (fax)

----- Forwarded by Shelie A Daniel/D4/MODOT on 06/18/2009 06:48 AM -----



Riverside Construction

Office

<Jennifer.Wallis@modot.mo
.gov>

Sent by:

Jennifer.Wallis@modot.mo.gov

v

To Robert.Ruffini@modot.mo.gov, shelie.daniel@modot.mo.gov

cc

Subject ESS CHANGE PROPOSAL

06/17/2009 03:16 PM

Please respond to
Jennifer.Wallis@modot.mo.gov

v

Allan J Ludiker/D4/MODOT

06/19/2009 01:04 PM

To Shelie A Daniel/D4/MODOT@MODOT

cc Robert.Netterville@lees-summit.mo.us,
herb.bailey@bartwest.com, Bradley L
Brunk/D4/MODOT@MODOT, Perry J

bcc

Subject Fw: Fw. VECP, Strother Road Interchange, I-470,
Jackson County

Shelie,

Brad Brunk and I discussed this VE proposal yesterday and would recommend approving it, as long as traffic control can be managed. I believe this was set up as asphalt to try to limit the period in which we would have narrow lanes through the curve, as we thought that the use of asphalt would be an overall quicker operation. If we are comfortable with impacts to traffic for the operation and time frame the contractor is proposing, there would be no reason to not allow concrete instead of asphalt. I forwarded the VE proposal to the design consultant and city for comment. Unless they object, I'd give it the OK.

Allan J. Ludiker, P.E.
Transportation Project Manager
Missouri Department of Transportation
816.622.0464
Allan.Ludiker@modot.mo.gov

----- Forwarded by Allan J Ludiker/D4/MODOT on 06/19/2009 12:55 PM -----

Allan J Ludiker/D4/MODOT

06/18/2009 07:19 AM

To Robert.Netterville@lees-summit.mo.us,
herb.bailey@bartwest.com, Bradley L
Brunk/D4/MODOT@MODOT

cc Shelie A Daniel/D4/MODOT@MODOT

Subject Fw: Fw. VECP, Strother Road Interchange, I-470,
Jackson County

Can you review and provide your recommendation on the VE proposal? I believe we were specifying asphalt in this area because we believed it would be quicker than concrete and were looking to limit the lane closure (I-470 down to single lane) in this area to as short as possible. If the impact to traffic can be managed, I don't see a problem. Am I overlooking anything?

Please respond ASAP as Construction has a short turn around on these. Thanks.

Allan J. Ludiker, P.E.
Transportation Project Manager
Missouri Department of Transportation

553+00 to 556+33.76 F-470 NBL RT

0160 13" Asphalt Conc. Pavt (SP1258) 511.50 SY @ 93.60 S.Y.

1430 A2 shoulder \$24.35 S.Y. 148.34 SY

$$\text{Plan Area. } (511.50)(93.60) = 47,876.40$$

$$\text{Plan Area. } (148.34)(24.35) = 3,612.08$$

51,488.48

$$\text{E.S.S. Proposal } (511.50)(80.27) = 41,058.11$$

$$\text{Plan Area. } (148.34)(24.35) = 3,612.08$$

44,670.19

51,488.48

- 44,670.19

\$6,818.29

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☒ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc. _____

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

_____ Use concrete pavement in lieu of planned asphalt for a portion of phase 2D of the project.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

_____ Scan proposal only.